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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,640	12/31/2003	Lawrence M. Boyd	1842-0021	9392
	7590 03/29/2010 OORE & BECK, LLP	EXAMINER		
CHASE TOWER			HARVEY, JULIANNA NANCY	
111 MONUMENT CIRCLE SUITE 3250		ART UNIT	PAPER NUMBER	
INDIANAPOLIS, IN 46204			3733	
			MAIL DATE	DELIVERY MODE
			03/29/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)
		10/749,640	BOYD ET AL.
	Office Action Summary	Examiner	Art Unit
		Julianna N. Harvey	3733
Period fo	The MAILING DATE of this communication a r Reply	appears on the cover sheet with the c	orrespondence address
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REF HEVER IS LONGER, FROM THE MAILING isions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory perion for the to reply within the set or extended period for reply will, by state pely received by the Office later than three months after the may and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
1)⊠ 2a) <u></u>	Responsive to communication(s) filed on <u>03</u> This action is FINAL . 2b) The Since this application is in condition for allow closed in accordance with the practice under the practice under the practice.	his action is non-final. vance except for formal matters, pro	
Dispositi	on of Claims		
5)⊠ 6)⊠ 7)⊠ 8)□ Applicati 9)□	Claim(s) 37,38,41-45 and 54-59 is/are pendida) Of the above claim(s) is/are withd Claim(s) 37,38 and 41-45 is/are allowed. Claim(s) 54-58 is/are rejected. Claim(s) 59 is/are objected to. Claim(s) are subject to restriction and on Papers The specification is objected to by the Exami	rawn from consideration. d/or election requirement. iner.	
_	The drawing(s) filed on is/are: a) _ a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the	he drawing(s) be held in abeyance. See ection is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority u	nder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure see the attached detailed Office action for a li	ents have been received. ents have been received in Application riority documents have been receive eau (PCT Rule 17.2(a)).	on No ed in this National Stage
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 3, 2009 has been entered.

Claim Rejections - 35 USC § 112

The previous rejection of claims 54-59 is withdrawn in view of Applicant's amendments.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 54 and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Justis et al. (US 6,293,949 B1) in view of Drewry et al. (US 2003/0083657 A1).

Regarding claim 54, Justis et al. disclose a method for dynamic stabilization of a motion

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segment of the spine comprising the steps of: coupling a dynamic stabilization system (20) across the motion segment (see Fig. 1) that permits substantially normal loading patterns on the disc by emulating substantially normal movement of the motion segment in the A/P plane in both directions during normal flexion and extension (col. 1, lines 58-62; col. 7, line 56 through col. 8, line 11 – note that Justis et al. indicate that the system emulates substantially normal movement of the motion segment during flexion and extension – based on the language of the claim, which indicates that emulating substantially normal movement permits substantially normal loading, the examiner is taking the position that the Justis et al. system permits substantially normal loading patterns on the disc because it emulates substantially normal movement). Regarding claim 58, Justis et al. disclose that the step of coupling a dynamic stabilization system includes providing a center of rotation of the motion segment that is located substantially at the posterior surface of the pedicle of the vertebrae of such segment (Fig. 2 of Justis et al. show that the system 20 is implanted such that the plate 22 is directly contacting the vertebrae – Applicant's Fig. 3 shows that, when a flexible device is secured to the motion segment, the center of rotation is located parallel to the flexible portion of the device (CR_R when using Applicant's flexible screws; CR_F when using a flexible plate spaced from the vertebrae; CR_I when using spinous process wires) – because the Justis et al. plate directly contacts the vertebrae, and is not spaced from the vertebrae, the examiner is taking the position that the center of rotation would be approximately CR_R and thus the Justis et al. system meets the claim limitations). Regarding claim 54, Justis et al. fail to disclose introducing a device into an

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intervertebral space to at least partially maintain or restore the natural motion of the disc at the motion segment. Drewry et al. teach that the use of artificial disc devices (which would partially maintain or restore the natural motion of the disc) in conjunction with external stabilization devices (e.g., rods and plates) is advantageous (para. 0002). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Justis et al. method such that it also includes introducing a device into an intervertebral space to at least partially maintain or restore the natural motion of the disc at the motion segment, as suggested by Drewry et al., as the use of artificial disc devices in conjunction with external stabilization devices is advantageous.

Claims 55-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Justis et al. (US 6,293,949 B1) and Drewry et al. (US 2003/0083657 A1) as applied to claim 54 above, and further in view of Bao et al. (US 5,534,028 A). Justis et al. and Drewry et al. teach the claimed invention except that that the step of introducing a device includes introducing a device for replacing or augmenting the nucleus pulposus of the intervertebral disc (claim 55), that the step of introducing a device includes introducing a polymeric prosthesis which exhibits physical properties similar to the natural nucleus pulposus (claim 56), and that the polymeric prosthesis is formed from a hydrogel (claim 57). Bao et al. teach a prosthetic nucleus pulposus made of hydrogel, a polymer, that has physical properties that are substantially similar to the physical properties of a natural nucleus pulposus (col. 3, lines 13-24). It would have been obvious to one of ordinary skill in the art to further modify the Justis et al. method such that the disc replacement is the Bao et al. prosthetic nucleus pulposus (claims 55-57)

as such a prosthesis would allow for partial disc replacement as some situations may only require replacement of the nucleus pulposus.

Allowable Subject Matter

Claims 37, 38, and 41-45 are allowed.

Claim 59 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julianna N. Harvey whose telephone number is 571-270-3815. The examiner can normally be reached on Mon. - Fri., 6:30 a.m. - 2:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. N. H./
Examiner, Art Unit 3733
/Eduardo C. Robert/
Supervisory Patent Examiner, Art Unit 3733